INTERNATIONAL SEARCH REPORT

I 31 Application No PCT/PL2005/000022

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D235/30 A61K31/4184 A61P35/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \text{Minimum documentation searched} & \text{(classification system followed by classification symbols)} \\ IPC & 7 & C070 & A61K & A61P \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BEILSTEIN Data, CHEM ABS Data

Category °	Citation of document, with indication, where appropriate, o	f the relevant passages	Relevant to plain No
	where appropriate, o	. the relevant passages	Relevant to claim No.
P,X	PAGANO, M. A. ET AL.: "Optin Protein Kinase CK2 Inhibitors 4,5,6,7-Tetrabromobenzimidazo J. MED. CHEM., vol. 47, 2 December 2004 (200 pages 6239-6247, XP002338109 the whole document	s Derived from ple"	1-21
X Furth	ner documents are listed in the continuation of box C.	χ Patent family members are li	sted in annex.
<u> </u>	tegories of cited documents :		
° Special ca "A" docume consid	tegories of cited documents : ent defining the general state of the art which is not ered to be of particular relevance	"T" later document published after the or priority date and not in conflict cited to understand the principle invention	e international filing date with the application but or theory underlying the
° Special ca "A" docume consid "E" earlier of filing d "L" docume which citation 'O" docume other r	tegories of cited documents: ent defining the general state of the art which is not ered to be of particular relevance document but published on or after the international ate not which may throw doubts on priority claim(s) or is cited to establish the publication date of another no or other special reason (as specified) and referring to an oral disclosure, use, exhibition or neans	"T" later document published after the or priority date and not in conflict clied to understand the principle invention "X" document of particular relevance; cannot be considered novel or ca involve an inventive step when the "Y" document of particular relevance; cannot be considered to involve a document is combined with one ments, such combination being of	e international filing date with the application but or theory underlying the the claimed invention annot be considered to be document is taken alone the claimed invention an inventive step when the or more other such docu—
"A" docume consider earlier of filing de which citation" "O" docume other rep" docume	tegories of cited documents: ent defining the general state of the art which is not ered to be of particular relevance document but published on or after the international ate nt which may throw doubts on priority claim(s) or is cited to establish the publication date of another no rother special reason (as specified) ent referring to an oral disclosure, use, exhibition or	"T" later document published after the or priority date and not in conflict cited to understand the principle invention "X" document of particular relevance; cannot be considered novel or cainvolve an inventive step when the step when the comment of particular relevance; cannot be considered to involve a document is combined with one of the co	e international filing date with the application but or theory underlying the the claimed invention annot be considered to be document is taken alone the claimed invention an inventive step when the primore other such docuporous to a person skilled
"A" docume consid "E" earlier of filing d "L" docume which citation "O" docume other r "P" docume later th	tegories of cited documents : ant defining the general state of the art which is not ered to be of particular relevance document but published on or after the international ate the international filling the publication date of another the international filling date but the international filling date but	"T" later document published after the or priority date and not in conflict cled to understand the principle invention "X" document of particular relevance; cannot be considered novel or cain involve an inventive step when it "Y" document of particular relevance; cannot be considered to involve a document is combined with one of ments, such combination being of in the art.	e international filing date with the application but or theory underlying the the claimed invention annot be considered to be document is taken alone the claimed invention an inventive step when the or more other such docu—subvious to a person skilled attent family
"A" docume consid "E" earlier of filing d "L" docume which citation "O" docume other r "P" docume later th	tegories of cited documents: ent defining the general state of the art which is not ered to be of particular relevance document but published on or after the international ate nt which may throw doubts on priority claim(s) or is cited to establish the publication date of another no rother special reason (as specified) ent referring to an oral disclosure, use, exhibition or neans ant published prior to the international filing date but an the priority date claimed	"T" later document published after the or priority date and not in conflict cited to understand the principle invention "X" document of particular relevance; cannot be considered novel or cannot be considered to involve an inventive step when the "Y" document of particular relevance; cannot be considered to involve a document is combined with one of the combined with one of the sand particular relevance; and the combined with one of the sand particular relevance; and the combined with one of the sand particular relevance; and the combined with one of the sand particular relevance."	e international filing date with the application but or theory underlying the the claimed invention annot be considered to be document is taken alone the claimed invention an inventive step when the or more other such docu—subvious to a person skilled attent family

INTERNATIONAL SEARCH REPORT

Intsal Application No
PCT/PL2005/000022

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °		Relevant to claim No.	
Ρ,Χ	PAGANO, M. A. ET AL.: "2-Dimethylamino-4,5,6,7-tetrabromo-1H-ben zimidazole: a novel powerful and selective inhibitor of protein kinase CK2" BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, ACADEMIC PRESS INC. ORLANDO, FL, US, vol. 321, no. 4, 3 September 2004 (2004-09-03), pages 1040-1044, XP004599622 ISSN: 0006-291X the whole document	1,2, 16-21	
X	ANDRZEJEWSKA, M. ET AL.: "Polyhalogenobenzimidazoles: synthesis and Their Inhibitory Activity against Casein Kinases" BIOORG. MED. CHEM., vol. 11, 2003, pages 3997-4002, XP002338110	1,16,18, 20	
Α	The whole document; in particular, page 3999, table 1, and page 4000, paragraph 1.	2-15,17, 19,21	
Α	WO 03/030902 A (TULARIK INC; FRENKEL, ALEXANDER, DAVID; LIVELY, SARAH, ELIZABETH; POWE) 17 April 2003 (2003-04-17) Abstract; page 2, lines 29-30; claim 19, compounds IIa; examples.	1-21	
A	US 3 705 174 A (MICHAEL H. FISHER ET AL) 5 December 1972 (1972-12-05) Abstract; claims; examples	1-21	

International application No. PCT/PL2005/000022

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 20-21 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compounds.
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Int.....al Application No PCT/PL2005/000022

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 03030902	A 17-04-20	OS CA 2458533 A1 EP 1434579 A1 WO 03030902 A1 US 2003144286 A1	17-04-2003 07-07-2004 17-04-2003 31-07-2003
US 3705174	A 05-12-19	2 NONE	